

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15713 - L2 Version 2
Chandra X-Ray Center

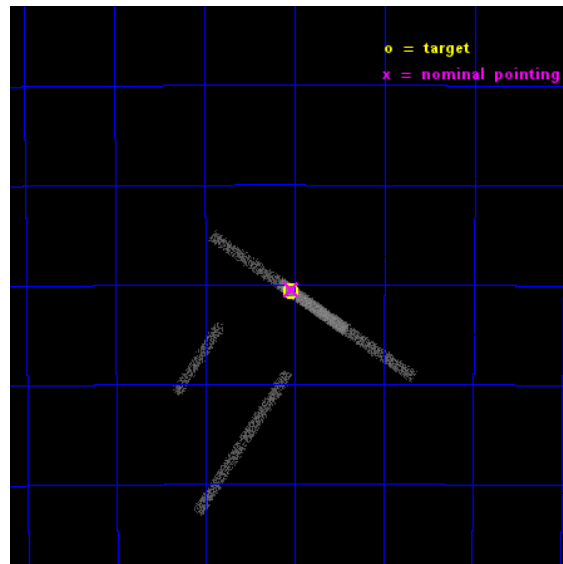
L2 Processing Date : Dec 10 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

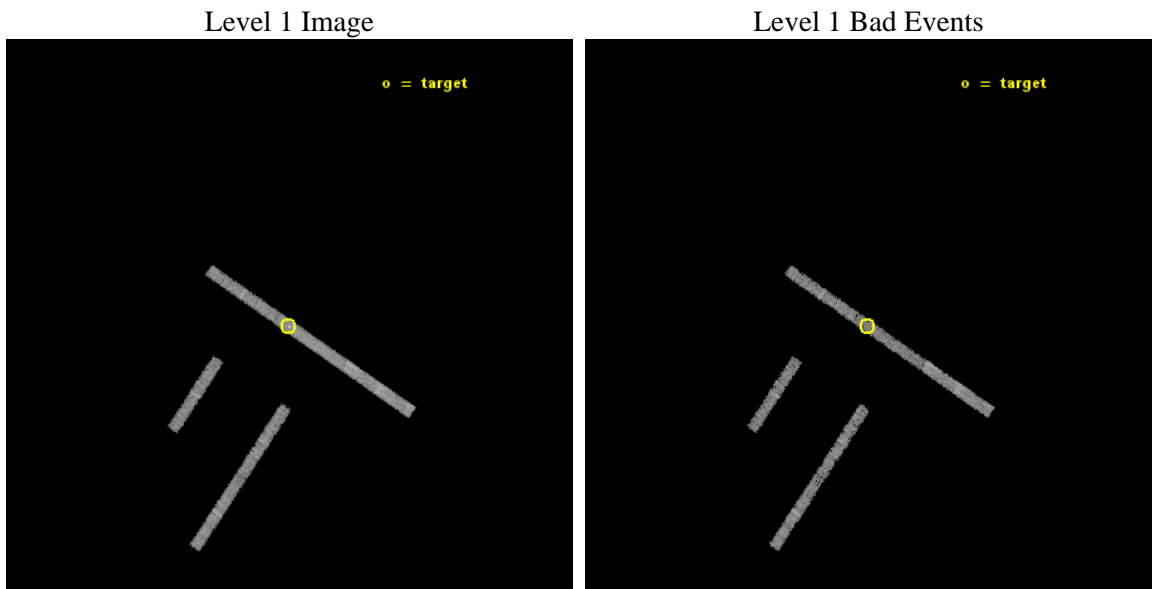
seq_num	200926	Sequence number
obs_id	15713	Observation id
title	Can X-rays clear a circumstellar disk in 2 years?	Proposal title
observer	Dr. Hans Guenther	Principal investigator
object	TYC 8241 2652 1	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.259167	Observer's specified target RA [deg]
dec_targ	-51.344667	Observer's specified target Dec [deg]
ra_nom	182.25909891372	Nominal RA [deg]
dec_nom	-51.341662012085	Nominal Dec [deg]
roll_nom	33.972028259258	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10063.899828553	Sum of GTIs [s]
livetime	9506.5446939264	Livetime [s]
ontime1	10063.899828553	Sum of GTIs [s]
ontime2	10063.899828553	Sum of GTIs [s]
ontime3	10063.899828553	Sum of GTIs [s]
ontime6	10063.899828553	Sum of GTIs [s]
ontime7	10063.899828553	Sum of GTIs [s]
ontime8	10063.899828553	Sum of GTIs [s]
l2events	8434	Number of level 2 events



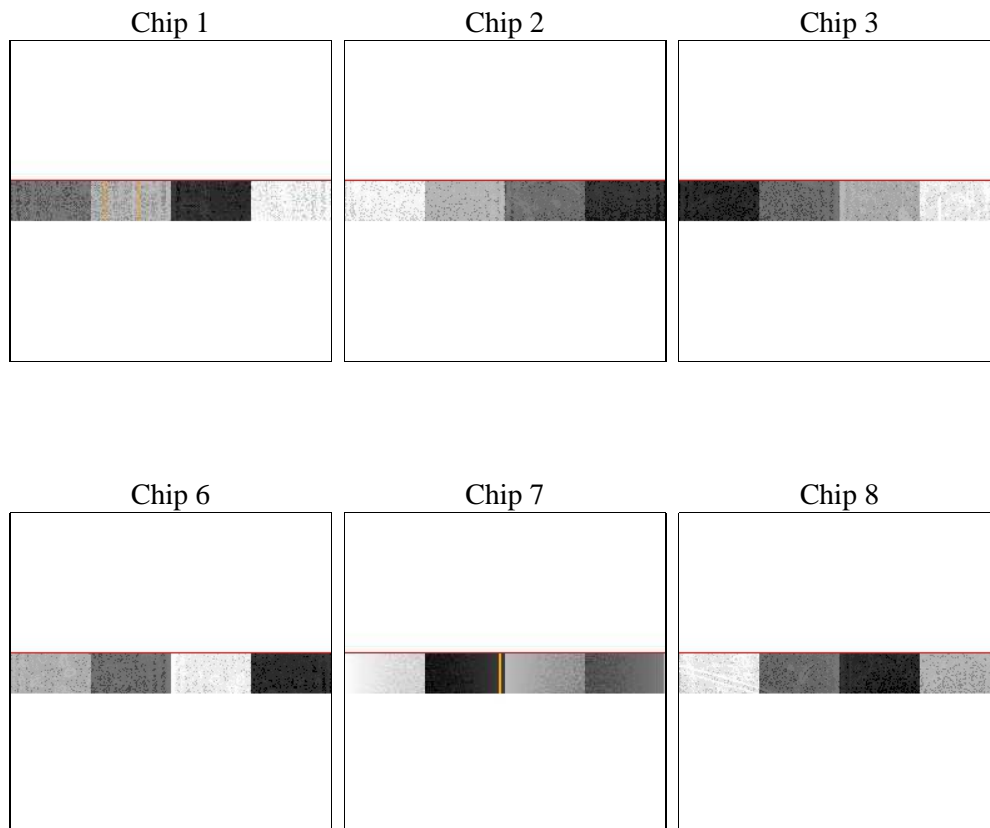
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10063.899828553	Sum of GTIs [s]
caldbver	4.6.4	 	ontime1	10063.899828553	Sum of GTIs [s]
date	2014-12-10T10:16:41	Date and time of file creation	ontime2	10063.899828553	Sum of GTIs [s]
revision	2	Processing version of data	ontime3	10063.899828553	Sum of GTIs [s]
			ontime6	10063.899828553	Sum of GTIs [s]
			ontime7	10063.899828553	Sum of GTIs [s]
			ontime8	10063.899828553	Sum of GTIs [s]
			l1events	48844	Number of level 1 events

2.1.4 Events

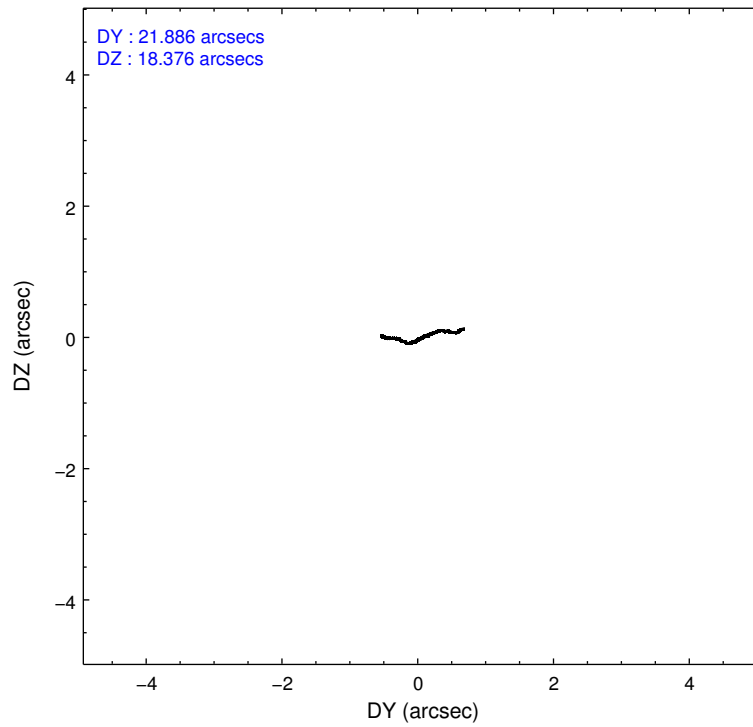
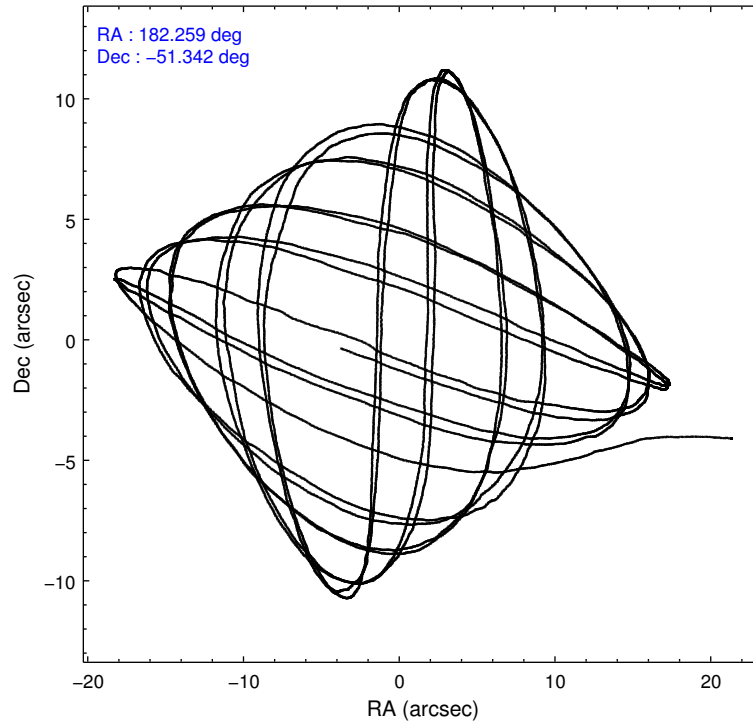
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	7275	6409	6791	7288	9960	11121
rejected events	6227	5588	5961	6413	5006	8587
rejected %	85%	87%	87%	87%	50%	77%

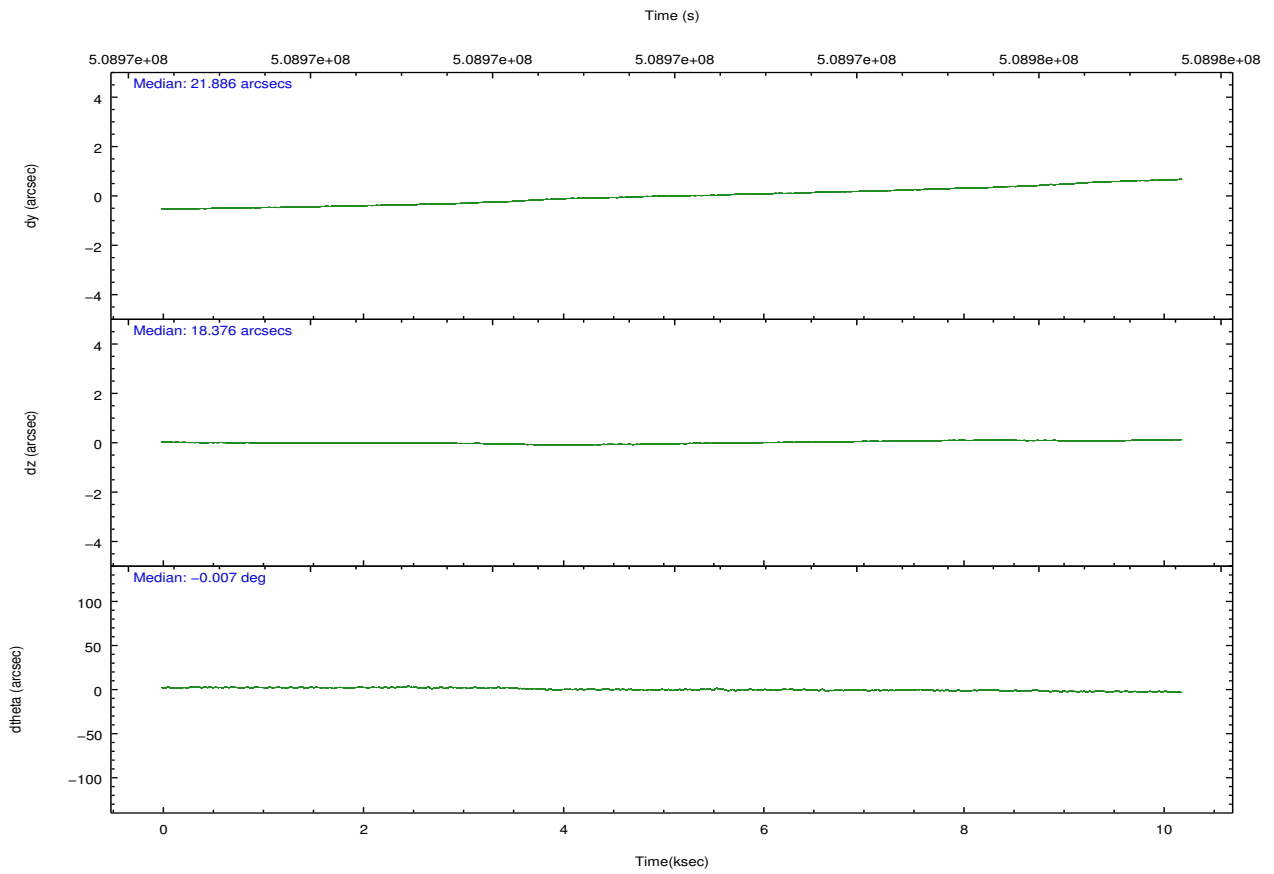
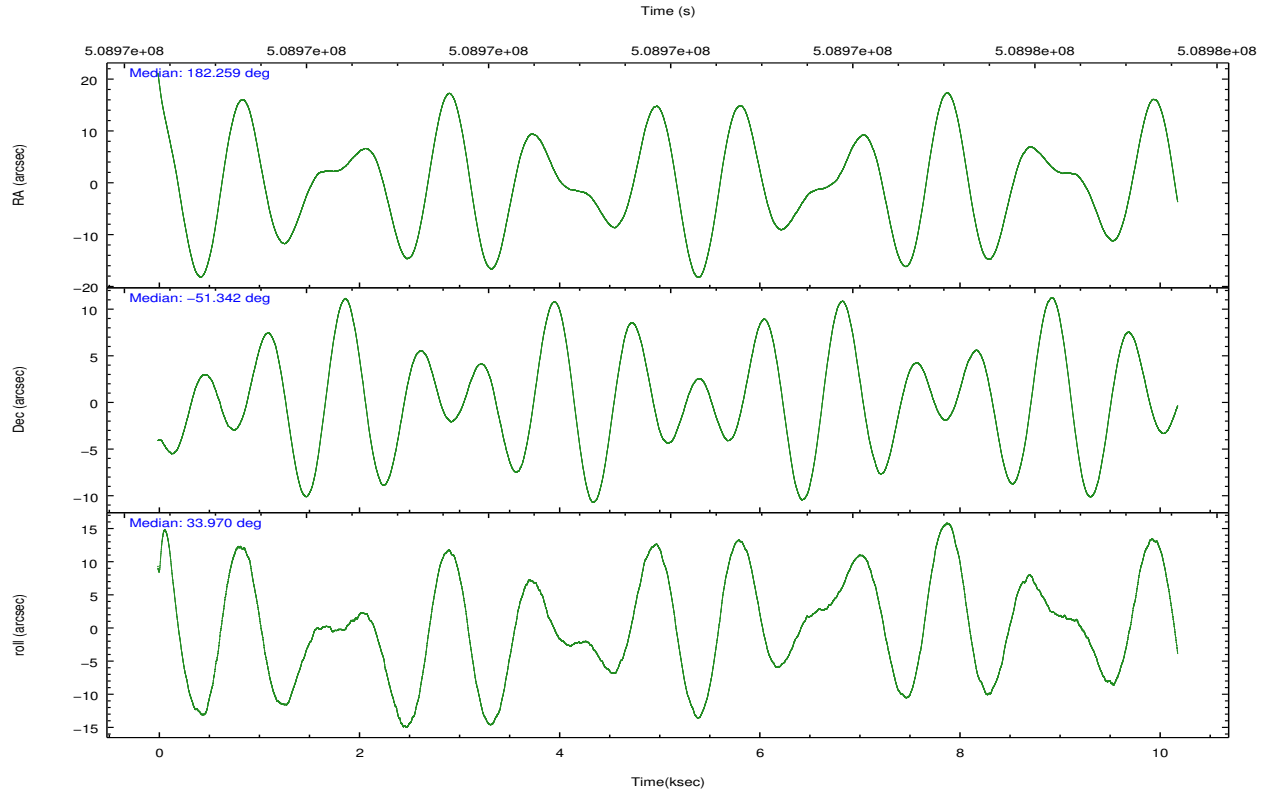
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	307	232	251	229	774	607
	4%	3%	3%	3%	7%	5%
grade 1 events	2	1	4	1	18	4
	0%	0%	0%	0%	0%	0%
grade 2 events	219	162	163	189	1113	559
	3%	2%	2%	2%	11%	5%
grade 3 events	148	148	133	157	564	265
	2%	2%	1%	2%	5%	2%
grade 4 events	160	114	126	140	506	250
	2%	1%	1%	1%	5%	2%
grade 5 events	354	224	339	344	1022	434
	4%	3%	4%	4%	10%	3%
grade 6 events	214	165	157	161	2000	854
	2%	2%	2%	2%	20%	7%
grade 7 events	5871	5363	5618	6067	3963	8148
	80%	83%	82%	83%	39%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-123678	ACIS-123678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	O1	Y
[deg] Pointing RA	182.240367	182.2590989137215	CCD I2 on	O2	Y
[deg] Pointing Dec	-51.366369	-51.34166201208488	CCD I3 on	O3	Y
[deg] Pointing Roll	33.800783	33.97202825925817	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O5	Y
[s] Observation start time (MET)	508967056.184000	508966316.21643	CCD S5 on	N	N
Observation start date	2014-02-16T19:43:09	2014-02-16T19:31:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	508977056.184000	508977859.76706	On-chip summing requested	N	N
Observation end date	2014-02-16T22:29:49	2014-02-16T22:44:19	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.7

2.3 Aspect





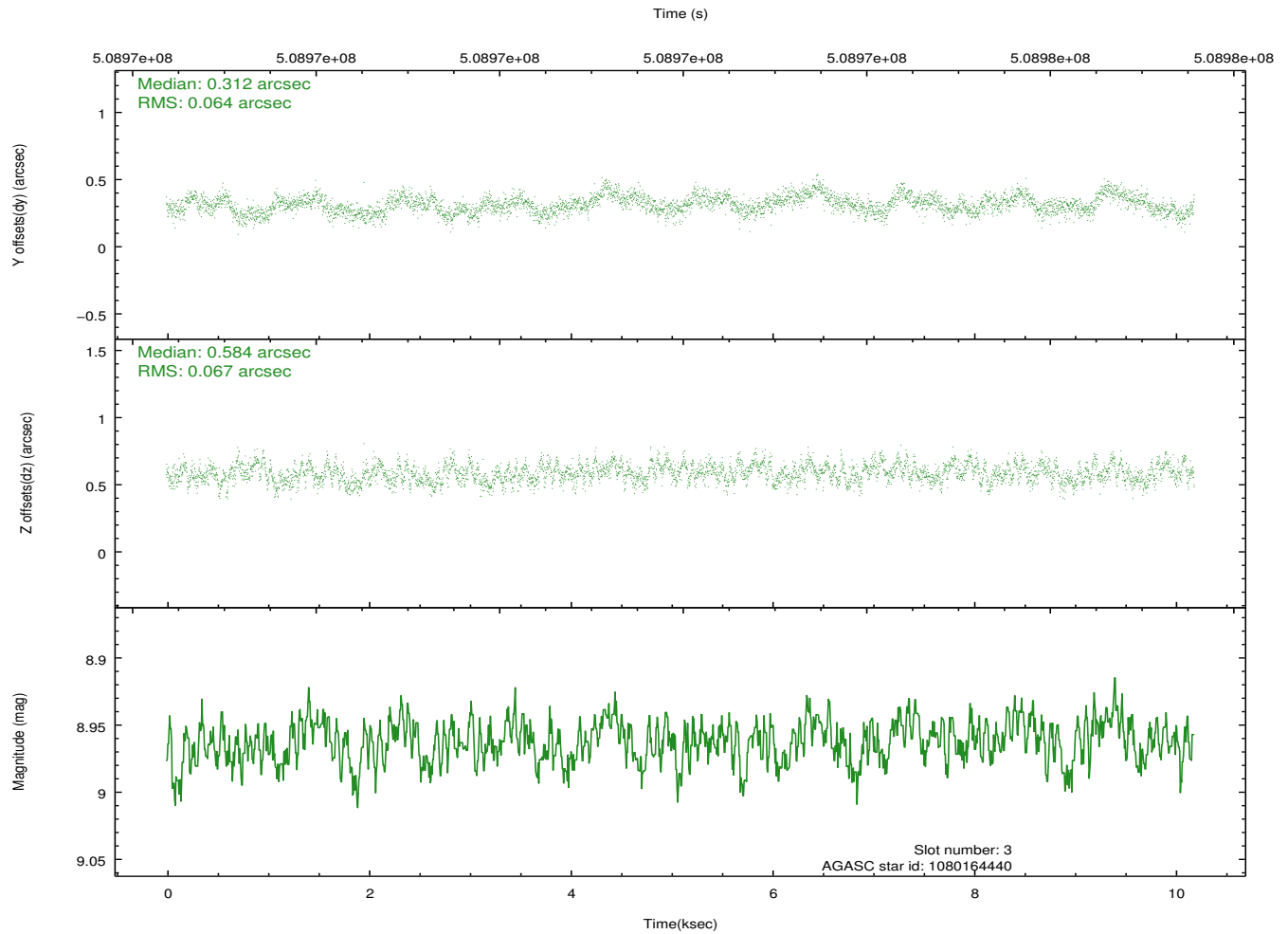
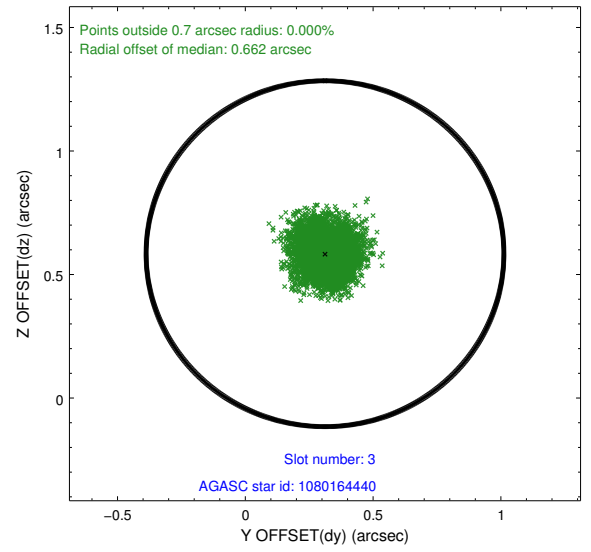
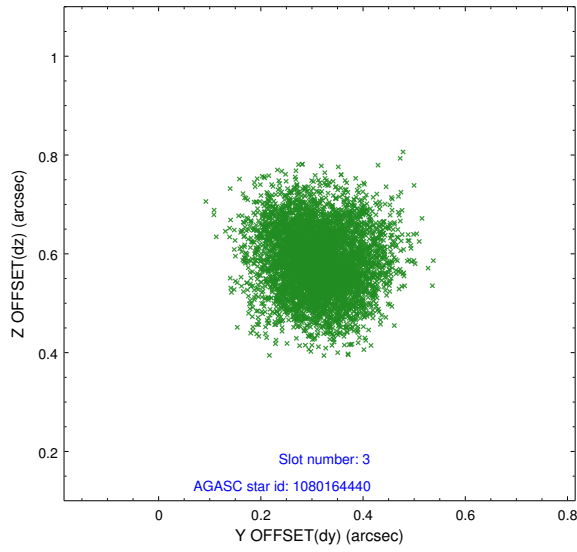
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.98	2486	0.163	-0.032	0.007	0.013	0.000000	0.000000	921.20	-1735.50
1	FID		ACIS-S-2	6.90	2486	-0.110	-0.033	0.007	0.012	0.000000	0.000000	-774.69	-1740.63
2	FID		ACIS-S-5	7.01	2486	-0.077	0.071	0.009	0.016	0.000000	0.000000	-1828.47	161.56
3	GUIDE	used	1080164440	8.96	4971	0.312	0.584	0.100	0.156	181.986340	-52.264623	-2264.20	-2375.87
4	GUIDE	used	1080175232	7.62	4972	0.193	0.184	0.074	0.113	182.163792	-51.536479	-483.38	-413.71
5	GUIDE	used	1080184168	8.22	4968	0.174	-0.251	0.086	0.137	181.163395	-51.370235	-2028.78	1320.06
6	GUIDE	used	1080190240	6.87	4972	-0.348	-0.460	0.091	0.140	182.020272	-50.763647	788.97	2081.56
7	GUIDE	used	1080320144	8.13	4971	-0.338	-0.063	0.076	0.123	182.947935	-50.956948	2148.86	326.53

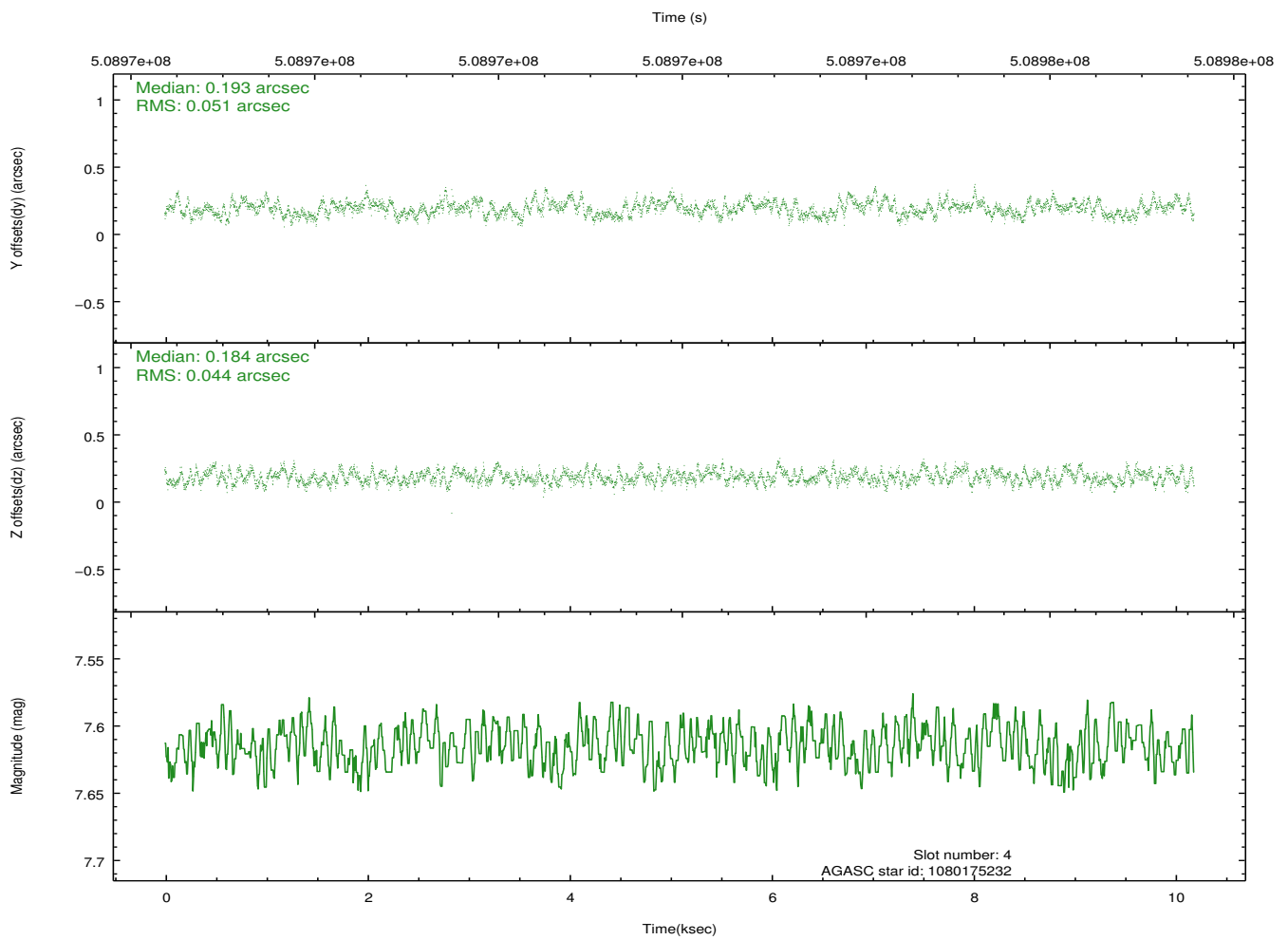
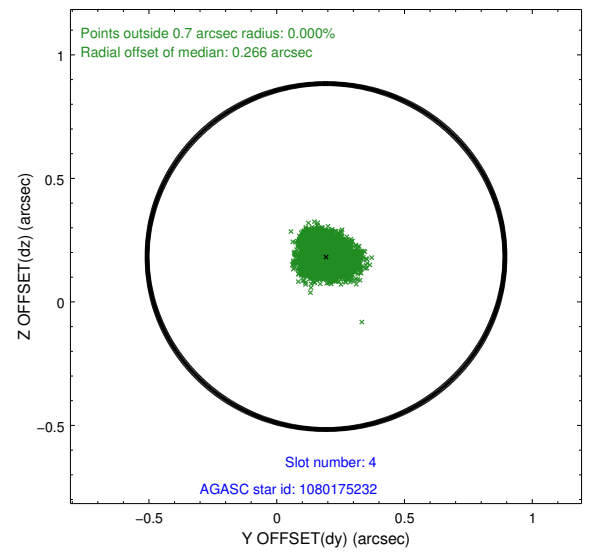
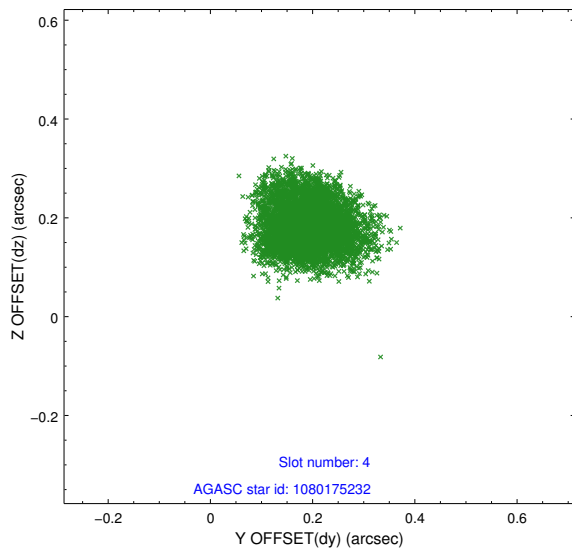
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2.4 Star Slots

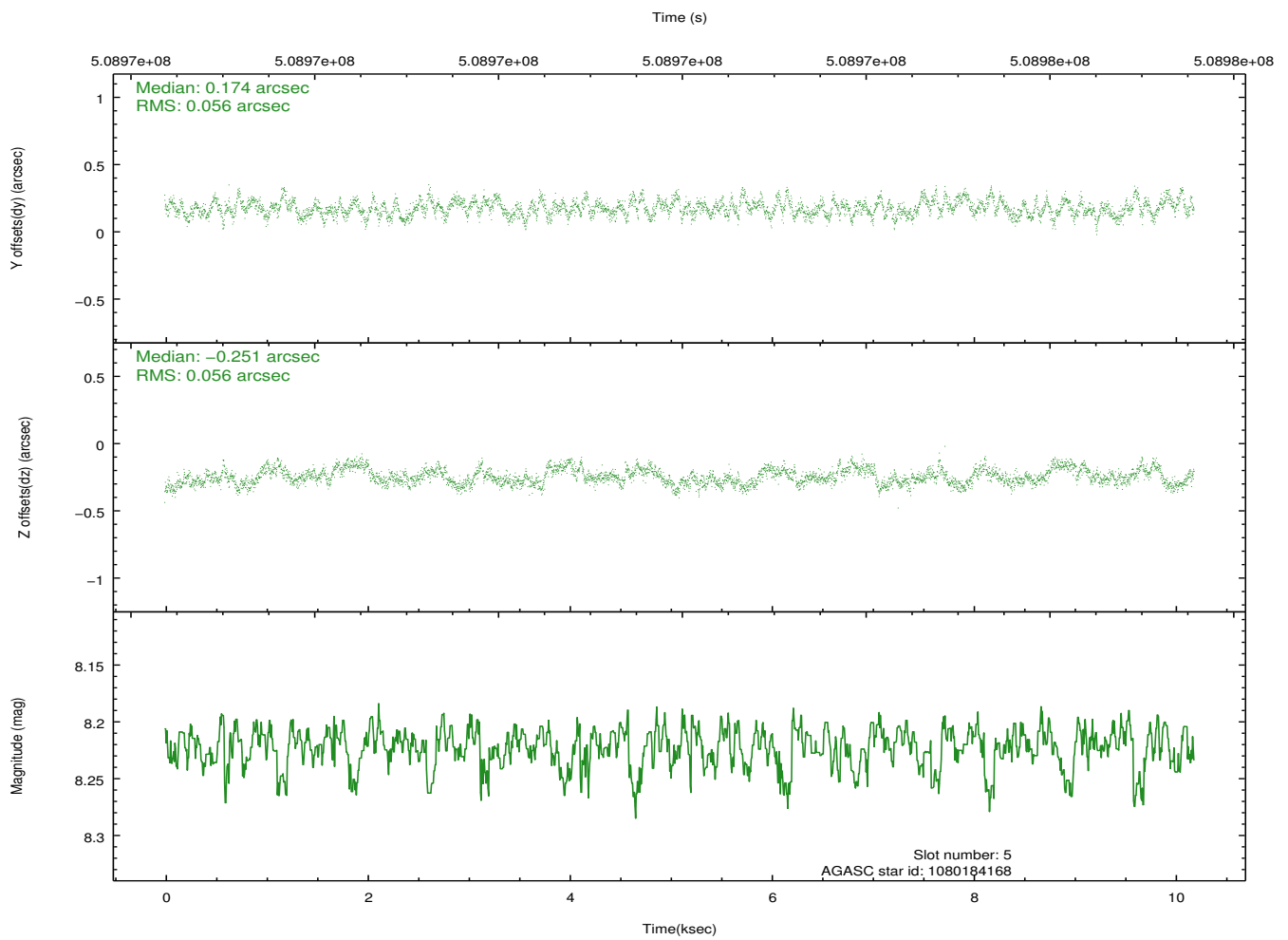
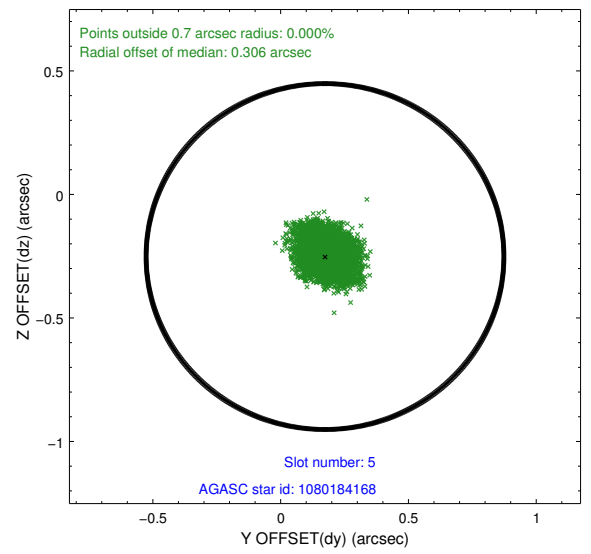
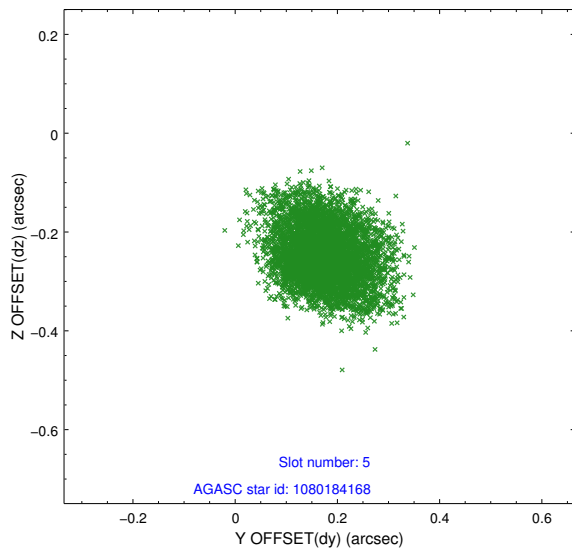
2.4.1 Slot 3



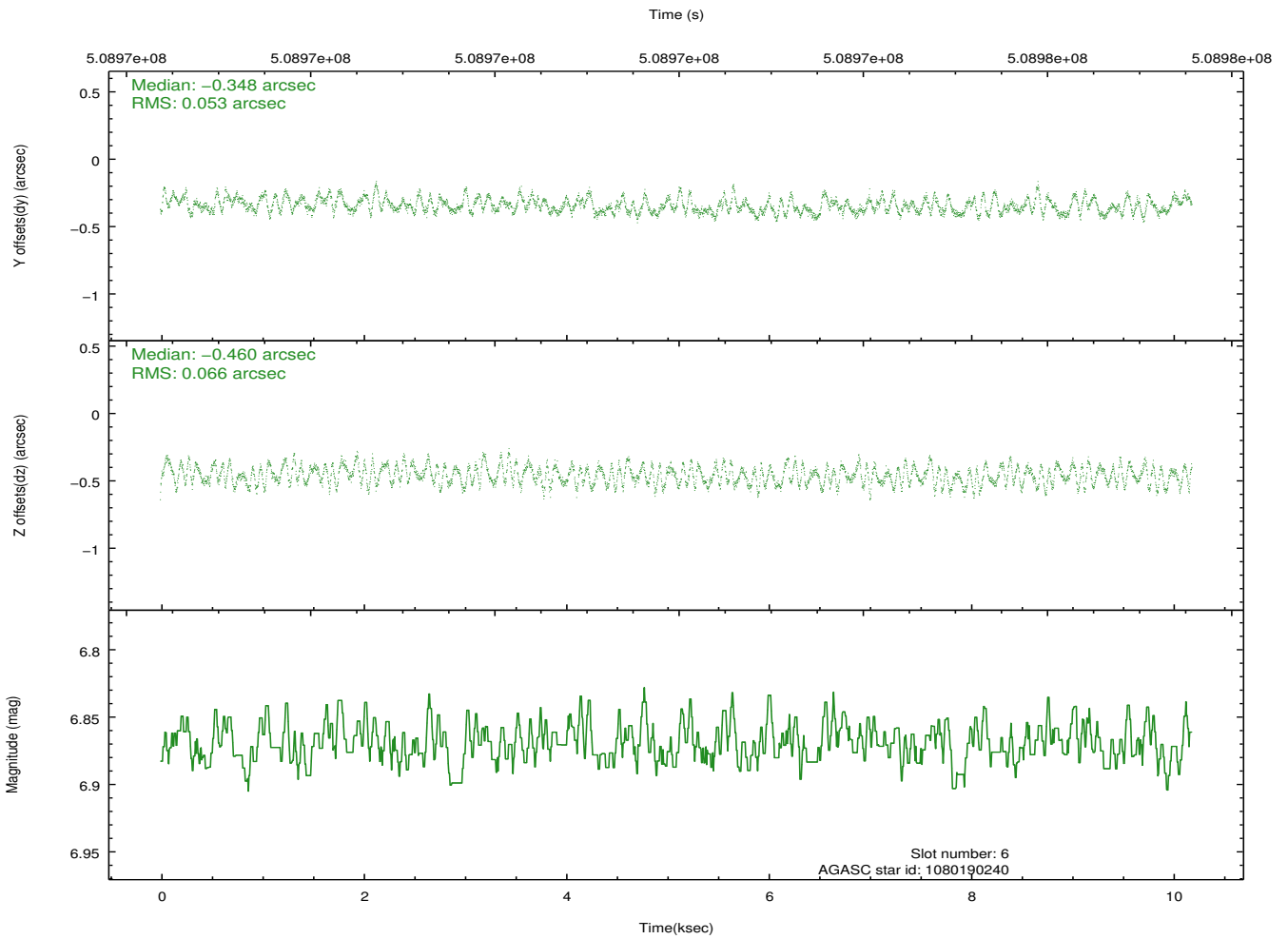
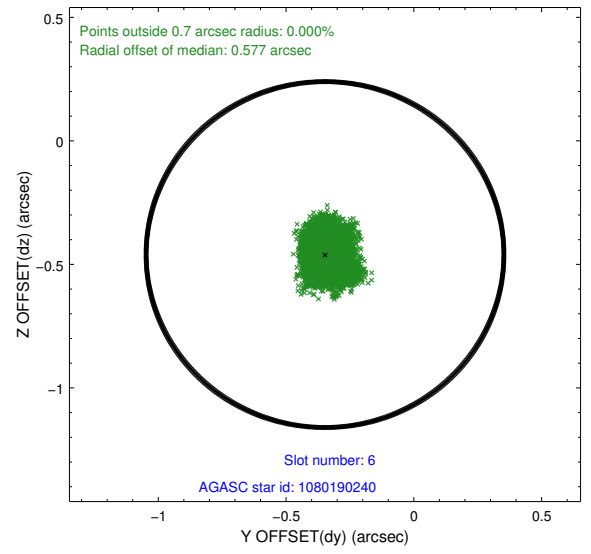
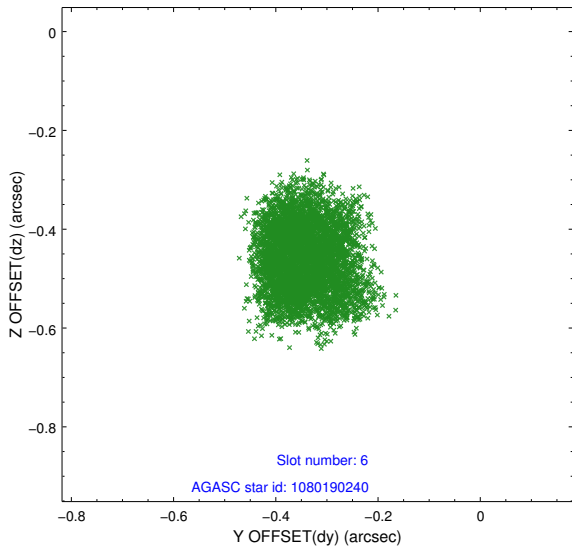
2.4.2 Slot 4



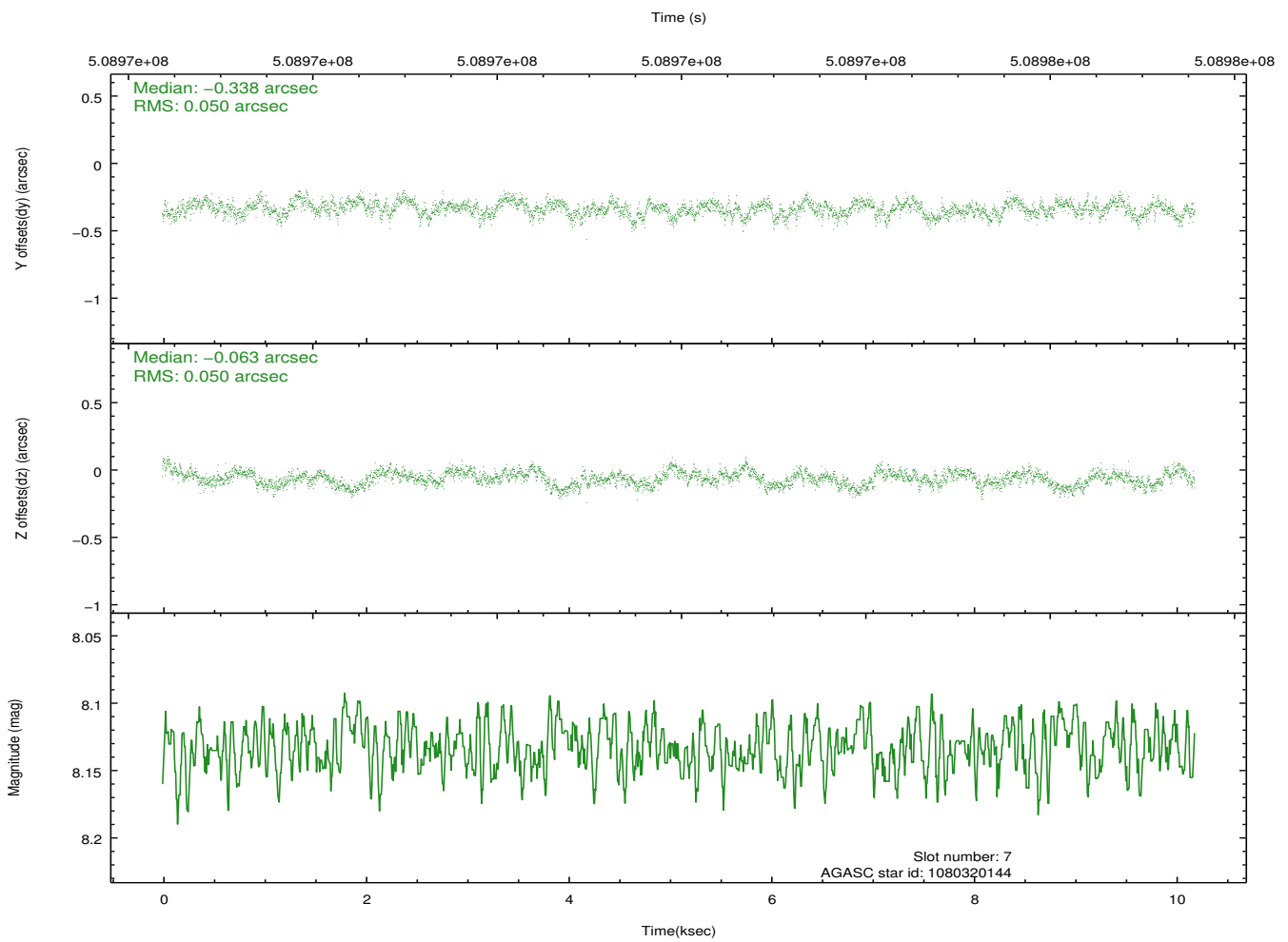
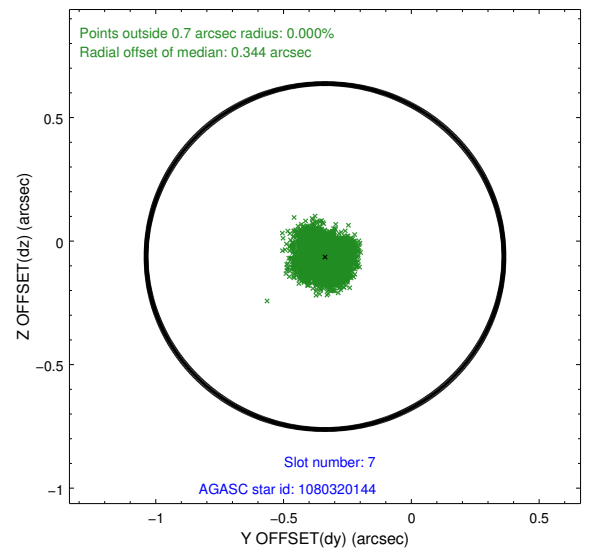
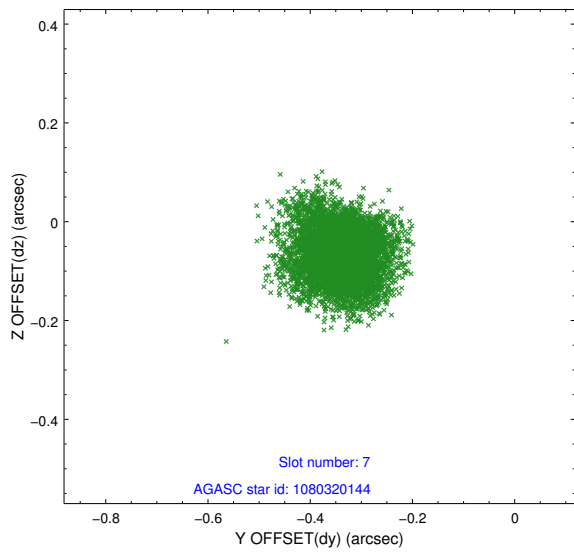
2.4.3 Slot 5



2.4.4 Slot 6

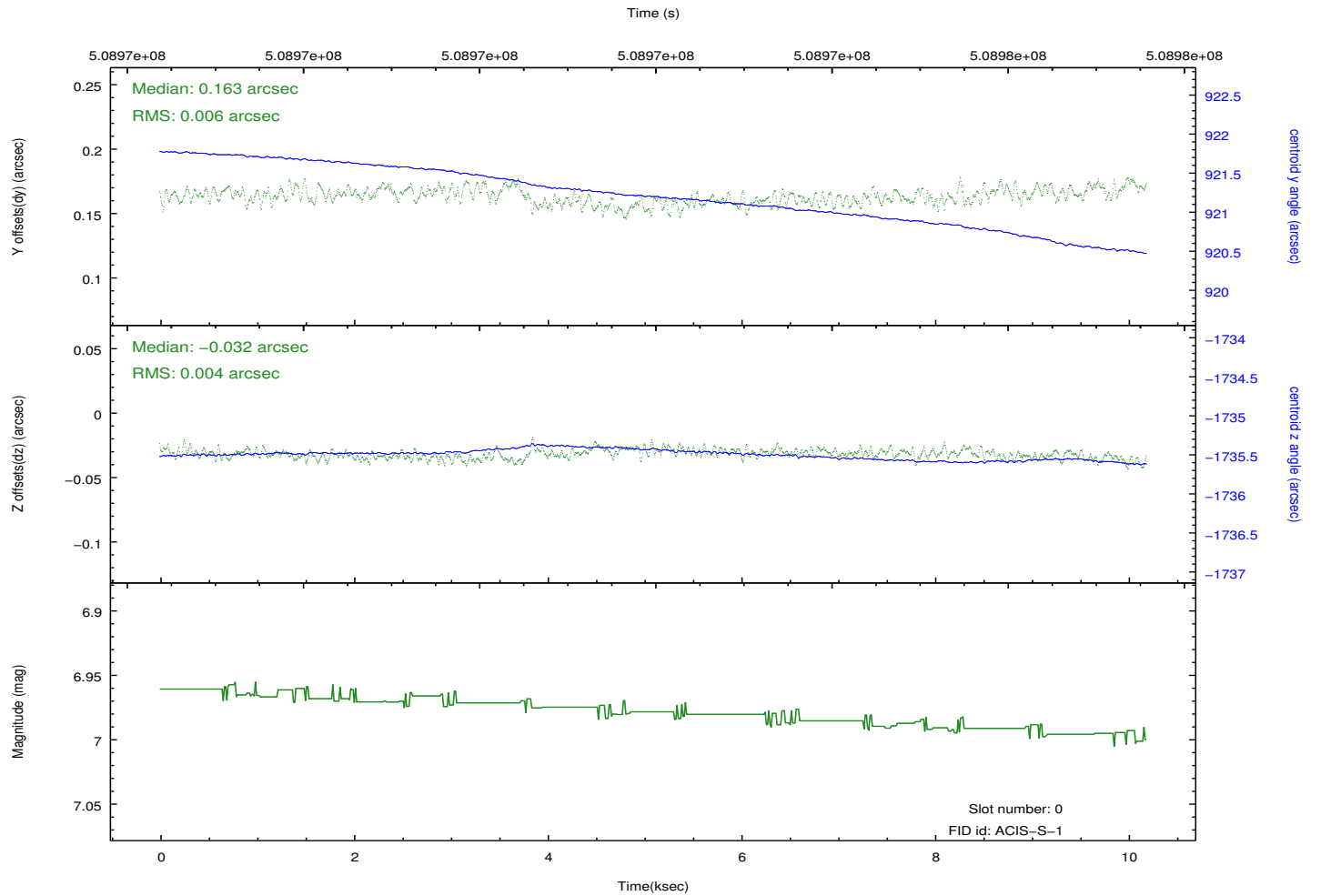
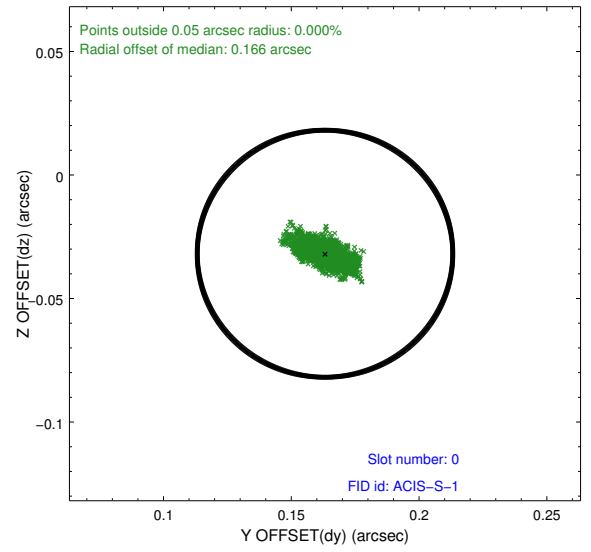
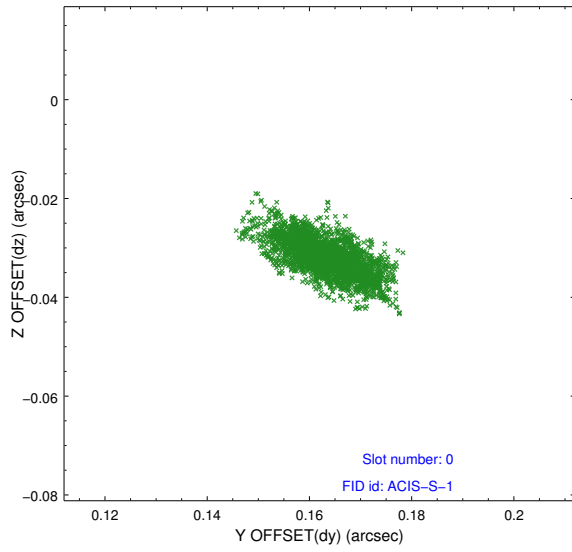


2.4.5 Slot 7

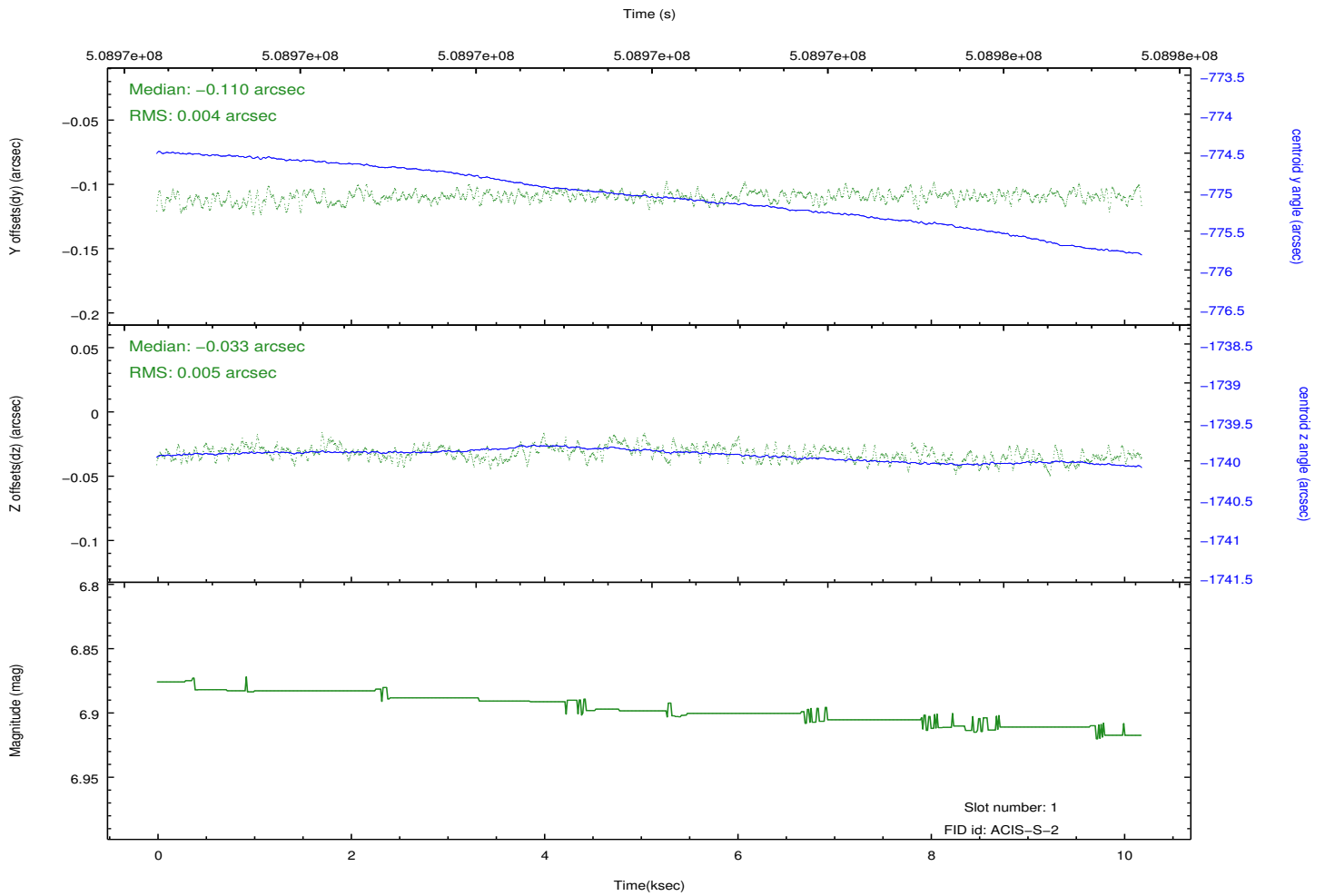
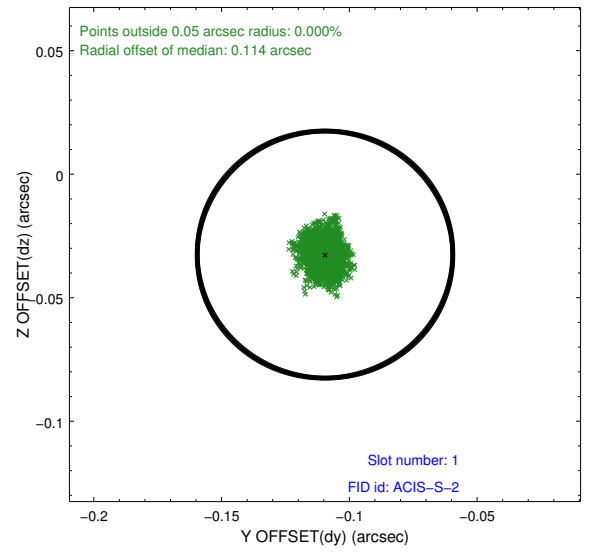
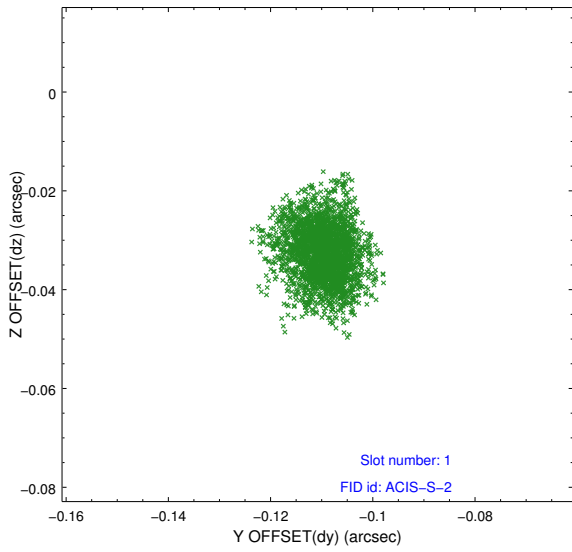


2.5 FID Slots

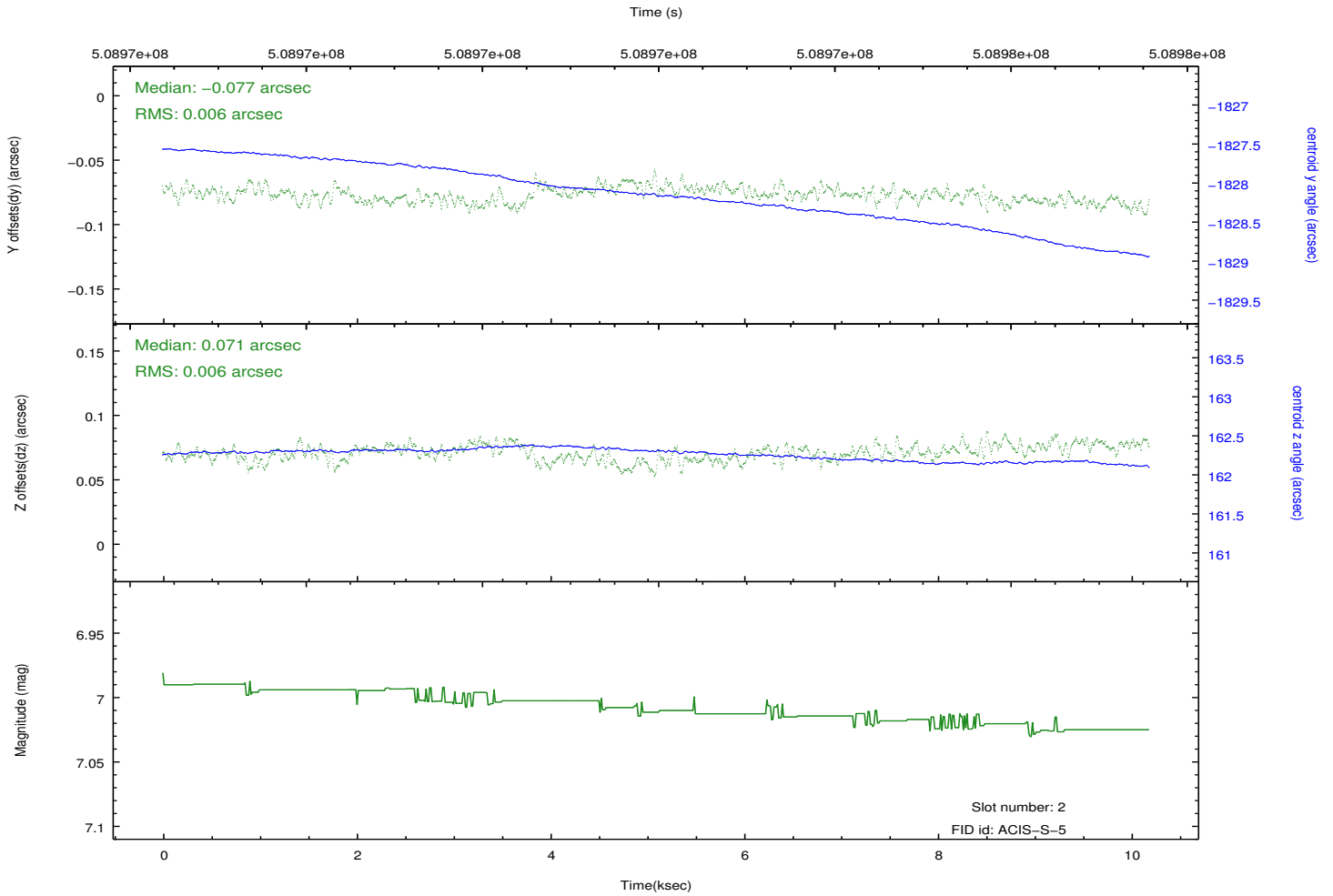
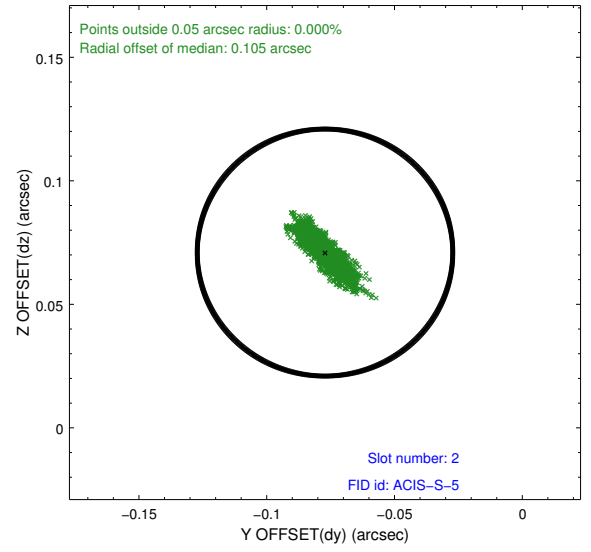
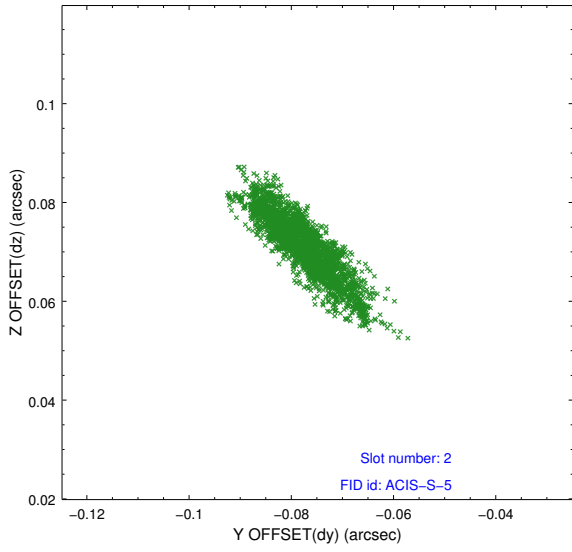
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.063899828553

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.